

Refine Search

Your wildcard search against 10000 terms has yielded the results below.

Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Search Results -

Terms	Documents
L42 and ((chang\$ or SWITCH\$) adj2 (zon\$ or region\$ or AREA\$ or site))	1

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L44

Refine Search

Recall Text

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Interrupt

Search History

DATE: Saturday, February 03, 2007
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Set
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 side by
 side

Hit Set
Count Name
 result
 set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD;
 THES=ASSIGNEE; PLUR=YES; OP=OR

<u>L44</u>	L42 and ((chang\$ or SWITCH\$) adj2 (zon\$ or region\$ or AREA\$ or site))	1	<u>L44</u>
<u>L43</u>	L42 and ((chang\$ or SWITCH\$) adj2 (zon\$ or region\$ or AREA\$ or site)) and (701/208 701/209).ccls.	1	<u>L43</u>
<u>L42</u>	l37 or l38 or l40 or l41	28	<u>L42</u>
	<i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i>		
<u>L41</u>	(5067081 4570227 5448696 5293163 5297051 5278946)! [PN]	6	<u>L41</u>
	<i>DB=USPT,DWPI; THES=ASSIGNEE; PLUR=YES; OP=OR</i>		
<u>L40</u>	("5908465" "EP 766216A") [ABPN1,NRPN,PN]	2	<u>L40</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR</i>		
<u>L39</u>	l35	2	<u>L39</u>
<u>L38</u>	("5908465" "EP 766216A") [URPN] l35	22	<u>L38</u>
	<i>DB=USPT,DWPI; THES=ASSIGNEE; PLUR=YES; OP=OR</i>		
<u>L37</u>	("5908465" "EP 766216A") [URPN]	20	<u>L37</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR</i>		
<u>L36</u>	L35 and (switch\$ or chang\$)	1	<u>L36</u>
<u>L35</u>	5908465.pn.	2	<u>L35</u>
<u>L34</u>	L33 or L30	9	<u>L34</u>
<u>L33</u>	L32 and ((chang\$ or SWITCH\$) adj2 (zon\$ or region\$ or AREA\$ or site)) and (701/208 701/209).ccls.	2	<u>L33</u>
<u>L32</u>	L28 or L30 or L31	110	<u>L32</u>
	<i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i>		
<u>L31</u>	(5442805 5323152 6169552 4937752 5944768 5588048 5208756 5270708 5635953 6006160 5675492 5452212 5109344 5243528 5802492 4608656 5119301 4663719 5475598 5470233 5513110 5712656 6044321 5594947 5926133 6073075 5652706 5467388 5857155 5519392 5359529 5930713 5955973 4642776 5559511 6058347 5757290 5559707 5901358 5550538 5682525 6009368 5902345 6385529 6202026 6016110 4563685 5502640 6009333 5657231	53	<u>L31</u>

5945949 | 4543572 | 5479476)! [PN]
DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR
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L30 "6389288" | "4763268" | "6622079" | "6333702" | 9 L30
 "6385529") [PN]
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THES=ASSIGNEE; PLUR=YES; OP=OR
L29 L25 9 L29
DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR
L28 ("20020095255" | "6519525" | "6389288" | "4763268" | 50 L28
 "6622079" | "6333702" | "6385529") [URPN]
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD;
THES=ASSIGNEE; PLUR=YES; OP=OR
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L26 6519525[uref] 2 L26
L25 L24 and 701/\$.ccls. 9 L25
L24 L23 and ((chang\$ or SWITCH\$) adj2 (zon\$ or region\$ 51 L24
 or AREA\$ or site))
L23 L21 or L22 194 L23
 navigat\$ and map\$ and ((chang\$ or SWITCH\$) WITH
L22 SEARCH\$ WITH (zon\$ or region\$ or AREA\$ or site)) 104 L22
 AND @pD<=20030110
 navigat\$ and map\$ and ((chang\$ or SWITCH\$) WITH
L21 SEARCH\$ WITH (zon\$ or region\$ or AREA\$ or site)) 191 L21
 AND @AD<=20030110
L20 L19 AND ((divid\$ or SPLIT\$) WITH (AREA\$ OR 23 L20
 ZON\$ OR SITE))
L19 L6 and map\$ 107 L19
DB=EPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=OR
L18 ep adj 1260791\$ 2 L18
L17 ep1260791 0 L17
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD;
THES=ASSIGNEE; PLUR=YES; OP=OR
L16 L6 AND (DEVID\$ WITH (AREA\$ OR ZON\$ OR 0 L16

	SITE))		
<u>L15</u>	L6 AND (SPLIT\$ WITH (AREA\$ OR ZON\$ OR SITE))	6	<u>L15</u>
<u>L14</u>	L6 AND (DEVID\$ WITH (AREA\$ OR ZON\$ OR SITE))	0	<u>L14</u>
<u>L13</u>	L11 AND (DEVID\$ WITH (AREA\$ OR ZON\$ OR SITE))	0	<u>L13</u>
<u>L12</u>	L11 AND (SPLIT\$ WITH (AREA\$ OR ZON\$ OR SITE))	2	<u>L12</u>
<u>L11</u>	L6 AND MAP\$	107	<u>L11</u>
<u>L10</u>	L9	107	<u>L10</u>
<u>L9</u>	L6 AND MAP\$8	107	<u>L9</u>
<u>L8</u>	L7 AND SEARCH\$ WITH AREA\$	1	<u>L8</u>
<u>L7</u>	6622085.PN.	2	<u>L7</u>
<u>L6</u>	SWITCH\$ WITH SEARCH\$ WITH AREA\$ AND @AD<=20030110	433	<u>L6</u>
<u>L5</u>	L4 AND MAP\$	5	<u>L5</u>
<u>L4</u>	L3 OR L2	36	<u>L4</u>
<u>L3</u>	L1 AND @PD<=20030110	29	<u>L3</u>
<u>L2</u>	L1 AND @AD<=20030110	32	<u>L2</u>
<u>L1</u>	AUTOMATIC\$ WITH SWITCH\$ WITH SEARCH\$ WITH AREA\$	41	<u>L1</u>

END OF SEARCH HISTORY

[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)**End of Result Set**

Generate Collection

Print

L43: Entry 1 of 1

File: USPT

Feb 12, 2002

US-PAT-NO: 6347280

DOCUMENT-IDENTIFIER: US 6347280 B1

TITLE: Navigation system and a memory medium in which programs are stored

DATE-ISSUED: February 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inoue; Koji	Okazaki			JP
Sakai; Tomoaki	Okazaki			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Aisin AW Co., Ltd.	Anjo			JP	03

APPL-NO: 09/644099 [PALM]

DATE FILED: August 23, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	11-235022	August 23, 1999
JP	11-235023	August 23, 1999
JP	11-235024	August 23, 1999

INT-CL-ISSUED: {07} G01C 21/00, G01C 22/00, G01S 5/00, G01S 11/00, G06F 7/00, G06F 17/00, G06F 19/00, G06F 165/00

INT-CL-CURRENT:

TYPE IPC	DATE
CIPS <u>G01 C 21/34</u>	20060101
CIPS <u>G01 C 21/36</u>	20060101
CIPS <u>G09 B 29/10</u>	20060101

US-CL-ISSUED: 701/211; 701/200.210-, 701/212.215-, 340/990, 340/995, 340/988, 340/910, 364/436, 364/438, 364/565, 364/449, 364/443, 342/451, 342/452, 345/123, 345/125, 345/121, 345/122

US-CL-CURRENT: 701/211; 340/910, 340/988, 340/990, 340/995.2, 342/451, 342/452, 701/200, 701/201, 701/202, 701/203, 701/204, 701/205, 701/206, 701/207, 701/208, 701/209, 701/210, 701/212, 701/213, 701/214, 701/215

FIELD-OF-CLASSIFICATION-SEARCH: 701/200-215, 340/990, 340/995, 340/988, 340/910,

364/436, 364/438, 364/565, 364/449, 364/443, 342/451, 342/452, 345/123, 345/125,
345/121, 345/122

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5648904</u>	July 1997	Scott	364/436
<input type="checkbox"/>	<u>5908465</u>	June 1999	Ito et al.	701/211
<input type="checkbox"/>	<u>5928308</u>	July 1999	Nanba et al.	701/211
<input type="checkbox"/>	<u>5938718</u>	August 1999	Morimoto et al.	701/201

ART-UNIT: 3661

PRIMARY-EXAMINER: Cuchlinski, Jr.; Willam A.

ASSISTANT-EXAMINER: Mancho; Ronnie

ATTY-AGENT-FIRM: Oliff & Berridge PLC

ABSTRACT:

A navigation system that provides guidance information if more than three guide intersections are successively located adjacent each other. The vehicle navigation system's guidance information output is controlled on the basis of the successive relationships between respective intersections and is stored as programs in a memory medium.

14 Claims, 24 Drawing figures

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)**End of Result Set**☐ [Generate Collection](#) [Print](#)

L43: Entry 1 of 1

File: USPT

Feb 12, 2002

DOCUMENT-IDENTIFIER: US 6347280 B1

TITLE: Navigation system and a memory medium in which programs are stored

Detailed Description Text (58):

Although the condition of the expressway in the United States is described in the above examples, it is understood that the invention is not limited to these embodiments and further it is applicable to all cases in which called road names are changed according to areas. It is described by using two areas AAA and BBB in the above example, needless to say it is applicable to more than three areas.

Current US Cross Reference Classification (15):701/208Current US Cross Reference Classification (16):701/209US Reference Patent Number (2):5908465[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

10/718/670

Hit List

First Hit

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

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Search Results - Record(s) 1 through 2 of 2 returned.☐ 1. Document ID: US 5908465 A

L35: Entry 1 of 2

File: USPT

Jun 1, 1999

US-PAT-NO: 5908465

DOCUMENT-IDENTIFIER: US 5908465 A

TITLE: Navigation system for displaying a structure-shape map

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	--------

☐ 2. Document ID: EP 766216 A1, JP 09152830 A, JP 09152832 A, JP 09185799 A, JP 09292258 A, KR 97002801 A, US 5908465 A, JP 2982716 B2, JP 11352878 A, KR 183524 B1, JP 3173371 B2, EP 766216 B1, DE 69627442 E

L35: Entry 2 of 2

File: DWPI

Apr 2, 1997

DERWENT-ACC-NO: 1997-195124

DERWENT-WEEK: 200349

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TITLE: Car navigation system for providing road guidance by displaying map - decides display modes such as colours, densities and patterns on basis of information belonging to structures to be displayed

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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Generate Collection

Print

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Bkwd Refs

Generate OACS

Terms

Documents

5908465.pn.

2

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#) [Previous Doc](#) [Next Doc](#) [Go to Doc#](#)

☐ [Generate Collection](#) [Print](#)

L35: Entry 1 of 2

File: USPT

Jun 1, 1999

US-PAT-NO: 5908465

DOCUMENT-IDENTIFIER: US 5908465 A

TITLE: Navigation system for displaying a structure-shape map

DATE-ISSUED: June 1, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ito; Yasunobu	Anjo			JP
Nimura; Mitsuhiro	Anjo			JP
Hayashi; Seiji	Anjo			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Aisin AW Co., Ltd.	Anjo			JP	03

APPL-NO: 08/721199 [\[PALM\]](#)

DATE FILED: September 27, 1996

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	7-249227	September 27, 1995
JP	7-249969	September 27, 1995
JP	7-282738	October 31, 1995
JP	8-108147	April 26, 1996

INT-CL-ISSUED: [06] G01C 21/00, G08G 1/09

INT-CL-CURRENT:

TYPE IPC	DATE
CIPS <u>G08 G 1/0969</u>	20060101
CIPS <u>G01 C 21/36</u>	20060101
CIPS <u>G01 C 21/34</u>	20060101

US-CL-ISSUED: 701/211; 340/995

US-CL-CURRENT: 701/211; 340/995.27FIELD-OF-CLASSIFICATION-SEARCH: 701/201, 701/208, 701/211, 340/995
See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4570227</u>	February 1986	Tachi et al.	364/444
<input type="checkbox"/>	<u>5067081</u>	November 1991	Person	364/444
<input type="checkbox"/>	<u>5278946</u>	January 1994	Shimada et al.	395/62
<input type="checkbox"/>	<u>5293163</u>	March 1994	Kakihara et al.	340/995
<input type="checkbox"/>	<u>5297051</u>	March 1994	Arakawa et al.	364/449
<input type="checkbox"/>	<u>5448696</u>	September 1995	Shimada et al.	395/161

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
A-579-451	January 1994	EP	
A-37-44-533	July 1989	DE	
A-42-19-171	January 1993	DE	

OTHER PUBLICATIONS

Proceedings of the Vehicle Navigation and Information Systems Conference.. Sep. 11-13, 1989, "GDF, A Proposed Standard for Digital Road Maps to be Used in Car navigation Systems".

ART-UNIT: 361

PRIMARY-EXAMINER: Zanelli; Michael

ATTY-AGENT-FIRM: Oliff & Berridge, PLC

ABSTRACT:

Road or other guidance is provided by displaying a structure-shape map showing building shapes and roads. Drawing of building shapes on the map is restricted according to a specific condition, e.g. the travel condition of the vehicle, or the screen scroll mode, by setting the display color for building shapes to the same color as that for a background, or by not drawing any of them, thereby preventing the screen from becoming difficult to see even during scrolling. For the structure-shape map, a storage device (3) stores map data having a name and a coordinate string for each shape of various structures and information belonging to each structure. A guidance controller (4) decides colors, color densities, patterns thereof, etc. for shapes as display modes on the basis of information belonging to the structures, e.g. the classification and height of each structure, and other detailed information (e.g. scale of construction), retrieves information belonging to a structure concerned, together with information regarding surroundings, and displays, on a display (12), shapes and names according to the decided display modes, thereby giving guidance. The structure-shape map may be displayed centered on a structure having a telephone number retrieved by entry of the telephone

[First Hit](#) [Previous Doc](#) [Next Doc](#) [Go to Doc#](#)
End of Result Set

☐ [Generate Collection](#) [Print](#)

L35: Entry 2 of 2

File: DWPI

Apr 2, 1997

DERWENT-ACC-NO: 1997-195124

DERWENT-WEEK: 200349

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TITLE: Car navigation system for providing road guidance by displaying map -
decides display modes such as colours, densities and patterns on basis of
information belonging to structures to be displayed

INVENTOR: HAYASHI, S; ITO, Y ; NIMURA, M

PATENT-ASSIGNEE: AISIN AW CO LTD (AISW), AISHN AW CO LTD (AISW)

PRIORITY-DATA: 1996JP-0108147 (April 26, 1996), 1995JP-0249227 (September 27,
1995), 1995JP-0249969 (September 27, 1995), 1995JP-0282738 (October 31, 1995),
1999JP-0128391 (October 31, 1996)

[Search Selected](#)[Search ALL](#)[Clear](#)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> EP 766216 A1	April 2, 1997	E	043	G08G001/0969
<input type="checkbox"/> JP 09152830 A	June 10, 1997		017	G09B029/00
<input type="checkbox"/> JP 09152832 A	June 10, 1997		015	G09B029/00
<input type="checkbox"/> JP 09185799 A	July 15, 1997		015	G08G001/0969
<input type="checkbox"/> JP 09292258 A	November 11, 1997		018	G01C021/00
<input type="checkbox"/> KR 97002801 A	January 28, 1997		000	G08G001/0969
<input type="checkbox"/> US 5908465 A	June 1, 1999		000	G01C021/00
<input type="checkbox"/> JP 2982716 B2	November 29, 1999		016	G08G001/0969
<input type="checkbox"/> JP 11352878 A	December 24, 1999		014	G09B029/00
<input type="checkbox"/> KR 183524 B1	April 15, 1999		000	G08G001/0969
<input type="checkbox"/> JP 3173371 B2	June 4, 2001		018	G01C021/00
<input type="checkbox"/> EP 766216 B1	April 16, 2003	E	000	G08G001/0969
<input type="checkbox"/> DE 69627442 E	May 22, 2003		000	G08G001/0969

DESIGNATED-STATES: DE FR GB IT DE FR GB IT

CITED-DOCUMENTS:1.Jnl.Ref; DE 3744533 ; DE 4219171 ; EP 579451 ; US 5067081 ; US
5293163

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 766216A1	September 26, 1996	1996EP-0115475	
JP 09152830A	September 27, 1996	1996JP-0255918	
JP 09152832A	September 27, 1996	1996JP-0255919	
JP 09185799A	October 31, 1996	1996JP-0289609	
JP 09292258A	April 26, 1996	1996JP-0108147	
KR 97002801A	September 25, 1996	1996KR-0042253	
US 5908465A	September 27, 1996	1996US-0721199	
JP 2982716B2	October 31, 1996	1996JP-0289609	
JP 2982716B2		JP 9185799	Previous Publ.
JP 11352878A	October 31, 1996	1996JP-0289609	Div ex
JP 11352878A	October 31, 1996	1999JP-0128391	
KR 183524B1	September 25, 1996	1996KR-0042253	
JP 3173371B2	April 26, 1996	1996JP-0108147	
JP 3173371B2		JP 9292258	Previous Publ.
EP 766216B1	September 26, 1996	1996EP-0115475	
EP 766216B1	September 26, 1996	2003EP-0000530	Related to
DE 69627442E	September 26, 1996	1996DE-0627442	
DE 69627442E	September 26, 1996	1996EP-0115475	
DE 69627442E		EP 766216	Based on

INT-CL (IPC): G01C 21/00; G06T 1/00; G08G 1/09; G08G 1/0969; G09B 29/00; G09B 29/10; G09G 5/36; H04M 11/00

RELATED-ACC-NO: 2003-515358

ABSTRACTED-PUB-NO: EP 766216A
BASIC-ABSTRACT:

The navigation system includes a store which holds guidance information including building shapes. A display shows the guidance information. A guidance controller determines which information is displayed. The guidance controller sorts the information on building shapes in the store on the basis of a given condition. It also controls displayed information on the basis of the shapes.

The controller restricts drawing of the building shapes by setting a display colour to a same colour as a background or by not drawing them. The drawing is restricted when the screen is scrolled. The guidance controller determines a display mode.

USE - For displaying associated telephone numbers and buildings.

ADVANTAGE - Easy to use. Screen information is clear due to not drawing buildings all the time.

ABSTRACTED-PUB-NO: US 5908465A
EQUIVALENT-ABSTRACTS:

The navigation system includes a store which holds guidance information including building shapes. A display shows the guidance information. A guidance controller determines which information is displayed. The guidance controller sorts the information on building shapes in the store on the basis of a given condition. It

also controls displayed information on the basis of the shapes.

The controller restricts drawing of the building shapes by setting a display colour to a same colour as a background or by not drawing them. The drawing is restricted when the screen is scrolled. The guidance controller determines a display mode.

USE - For displaying associated telephone numbers and buildings.

ADVANTAGE - Easy to use. Screen information is clear due to not drawing buildings all the time.

CHOSEN-DRAWING: Dwg.1/33

DERWENT-CLASS: P85 S02 T01 W06

EPI-CODES: S02-B08; T01-J06B; W06-A08;

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)